AD-A222 482

Technical Report
for the
Cargo Movement Operations System (CMOS)

Software Requirements Specification (Applications CSCI)
Increment I, Update



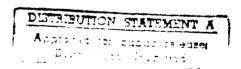
31 MAY 1990

Prepared under

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Prepared for

Standard Systems Center (SSC)
Deputy Chief of Staff for Acquisition
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Gunter AFB, AL 36114

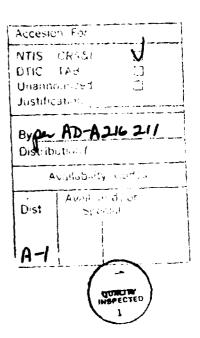


Prepared by

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SECTION I.

INTRODUCTION. The purpose of this Technical Report is to review the Software Requirements Specification, Applications CSCI, Increment I, Update, CDRL A003-04BB, which was produced for the Government by Evaluation Research Corporation. The results are provided in the form of Data Item Discrepancy worksheets as requested by the CMOS Program Office.

SUMMARY. Not Used.

CONCLUSION. Not Used.

SECTION II.

RESULTS.

Our analysis is provided in the attached Data Item Discrepancy worksheets.

ORIGINATOR CONTROL NUMBER: SRS1-0001 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: EDITORIAL: X

PAGE NUMBER: PARA. NUMBER:

COMMENT OR RECOMMENDED CHANGE:
All editorial comments for the Increment I Software Requirements

Specification, Applications CSCI, have been collected on this worksheet and are arranged in page number order.

RATIONALE:

N/A

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION: ACCEPT [] REJECT []

Cmnt No.	Page No.	Paragraph Number	Comment
	55	3.2.2.1.2	In the "Purpose and requirements satisfied" paragraph, line 16, add an "s" on the word "alternative". In line 17, insert the word "to" after "requirements".
2.	98	3.2.4.2	In the "Performance in measurable terms" paragraph, line 6, replace the semicolon after "complexity" with a comma.
3.	109	3.10.4.1a.	In line 5, add an "s" to the word "element".

ORIGINATOR CONTROL NUMBER: SRS1-0002 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X

EDITORIAL:

PAGE NUMBER: 25

PARA NUMBER: 3.2.1

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, delete SS0849.

RATIONALE:

The requirement to prompt the user to take follow-up REPSHIP action is inconsistent with the functions provided by the System Administration capability. Also, see comment number 12.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0003 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 57 PARA NUMBER: 3.2.2.2

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, delete SS0850 and SS0851.

RATIONALE:

These requirements are not present in all the subordinate system capabilitites and, therefore, should not be allocated to SC122. Also, see comment number 5.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0004 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 60 PARA NUMBER: 3.2.2.2.1

COMMENT OR RECOMMENDED CHANGE:

In the "Inputs (4)" paragraph, line 3, delete the phrase "while in post-post processing."

RATIONALE:

The PIC Ticket needs to accompany all property sourced by the SBSS, regardless of the operational state of the SBSS.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0005 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X

EDITORIAL:

PAGE NUMBER: 60

PARA NUMBER: 3.2.2.2.1

COMMENT OR RECOMMENDED CHANGE:

In the "Outputs" paragraph, and the "Purpose and requirements satisfied" paragraph, add the requirement to print/reprint a DD Form 1348-1A (SS0850 and SS0851).

RATIONALE:

DFD Figure 3.2.2.2.1 shows DD Form 1348-1A as a product of the Incheck Material process. The AF Form 1221, which drives the production of the DD Form 1348-1A, has been added to the "Inputs" paragraph. For consistency, SS0850 and SS0851 should be included in the "Outputs" and "Purpose and requirements satisfied" paragraphs. Also, see comment number 3.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0006 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 74 PARA NUMBER: 3.2.2.4.5

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, add SS0835.

RATIONALE:

The requirement to create and transmit the "YTC" transaction, "via menu selection and screen input", is partially satisfied by communications formatters. Additional allocation of SS0835 to SC1245 completely satisfies the requirement. Also, see comment number 10.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0007 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 75 PARA NUMBER: 3.2.2.4.5

COMMENT OR RECOMMENDED CHANGE:

In the "Inputs (1)" paragraph, add the entry of Advance Shipment Notice and REPSHIP data for transmission to other CMOSs and ALCs.

RATIONALE:

The baseline change statement of tasking, paragraph 5.4.4, identifies this requirement. The output portion of this requirement is shown under "Outputs"; however, the input portion is needed to completely address the requirement. DI-MCCR-80025A, paragraph 10.1.5.2.1 states, "This subparagraph shall identify and state the purpose of each input and output associated with the capability."

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0008 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAMA: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X

EDITORIAL:

PAGE NUMBER: 75

PARA NUMBER: 3.2.2.4.5

COMMENT OR RECOMMENDED CHANGE:

In the "Outputs (2)" paragraph, change "REPSHIPs to Consignees" to read, "REPSHIPS to other CMOSs and ALCs" and include "YTC/YTD/YTE" transactions.

RATIONALE:

The baseline change statement of tasking, (paragraphs 5.4.4.2 a., b., and c.) identifies this requirement.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0009 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X

EDITORIAL:

PAGE NUMBER: 75 and 82

PARA NUMBER: 3.2.2.4.5 and 3.2.2.5.4

COMMENT OR RECOMMENDED CHANGE:

In the "Outputs" paragraph, create a subparagraph (4) to read, "DD Form 173 - Provides a hard copy of the REPSHIP in those cases where no electronic REPSHIP can be sent."

RATIONALE:

The baseline change statement of tasking (paragraphs 5.4.4.2 b. and 5.4.4.3) identifies this requirement, and the shall statement (SS0839) is allocated to SC1245 and SC1254.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0010 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 81

PARA NUMBER: 3.2.2.5.4

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, add SS0835.

RATIONALE:

The transmission of a "YTC" transaction is precipitated by the system upon manifest completion. This action will occur within the Application CSCI before being forwarded to the Communications CSCI for external transmission. Also, see comment number 6.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0011 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 86 and 91 PARA NUMBER: 3.2.3.1.1 and 3.2.3.2.1

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, add SS0834.

RATIONALE:

The portion of this shall statement dealing with receiving the REPSHIP transaction is allocated to SC264 and SC265. However, the requirement also involves correcting the data base. Since this correction must be made to the Advanced Inbound Records, recommend SS0834 be allocated to SC1311 and SC1321 to completely satisfy the requirement.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0012 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-004BB DATE: 05/31/90

ORIGINATOR NAME: Vivian L. Martin OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 86 and 91 PARA NUMBER: 3.2.3.1.1. and 3.2.3.2.1

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraphs, add SS0849.

RATIONALE:

After establishment of an advanced inbound record, SS0849 requires that SF and AF operators be notified if the cargo is not received by the estimated delivery date. This is an extension of SC1311 and SC1321. Also, see comment number 2.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0013 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Vivian L. Martin OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 87 PARA NUMBER: 3.2.3.1.2

COMMENT OR RECOMMENDED CHANGE:

Delete shall statements 0861, 0863, 0864, 0866, and 0867 from SC1312. Create an SC named "Maintain over and short shipment records". Assign shall statements 0861, 0862, 0863, 0864, 0865, 0866, and 0867 to the new SC.

RATIONALE:

SC1312 satisfies the requirements of the incheck inbound cargo function. SC113 satisfies the requirement to document all transactions occurring against an over/short record (as opposed to the maintenance of the fields within the records). The maintenance of over/short shipment records described in shall statements 0861 through 0867 requires a dedicated SC, since no existing SC is similar enough to be expanded to meet this unique requirement. Also, see comment number 17.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0014 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 89 and 95 PARA NUMBER: 3.2.3.1.4 and 3.2.3.2.4

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, add SS0840 and SS0841.

RATIONALE:

Generation of the Acknowledgement of Receipt represents the reporting of inbound cargo received. Follow-up REPSHIP action is intended to confirm or deny the previous generation of an Acknowledgement of Receipt. Therefore, these shall statements should be allocated to SC1314 and SC1324.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0015 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X

EDITORIAL:

PAGE NUMBER: 90 and 95

PARA NUMBER: 3.2.3.1.4 and 3.2.3.2.4

COMMENT OR RECOMMENDED CHANGE:

In the "Outputs" paragraph, create a subparagraph (4) to read, "DD Form 173 - Provides a hard copy of the Acknowledgement of Receipt when no electronic reply can be sent."

RATIONALE:

This requirement, SS0847, is allocated to SC1314 and SC1324. For consistency, the creation of the DD Form 173 should be reflected as an output in accordance with DI-MCCR-80025A, paragraph 10.1.5.2.1.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0016 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 91 PARA NUMBER: 3.2.3.2.1

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, add SS0836.

RATIONALE:

Creation of the REPSHIP in the data base is allocated to Surface Freight (SC1311) but not Air Freight (SC1321). Allocation of the shall statement will fulfill the air side of the requirement.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0017 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Vivian L. Martin OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 91 and 92 PARA NUMBER: 3.2.3.2.1 and 3.2.3.2.2

COMMENT OR RECOMMENDED CHANGE:

Delete shall statements 0854, 0856, 0857, 0859, and 0860 from SC1321 and SC1322. Create an SC named "Maintain over and short shipment records". Assign shall statements 0854, 0855, 0856, 0857, 0858, 0859, and 0860 to the new SC.

RATIONALE:

SCs 1321 and 1322 satisfy requirements for establishing advanced inbound shipment records and inchecking inbound cargo. SC113 satisfies the requirement to document all transactions occurring against an over short record (as opposed to the maintenance of the fields within the record). The maintenance of over/short shipment records described in shall statements 0854 through 0860 requires a dedicated SC, since no existing SC is similar enough to be expanded to meet this unique requirement. Also, see comment number 13.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0018 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 96 PARA NUMBER: 3.2.4

COMMENT OR RECOMMENDED CHANGE:

In the "Purpose and requirements satisfied" paragraph, delete SS0841.

RATIONALE:

The requirement to prompt the user to take follow-up REPSHIP action is inconsistent with the functions provided by the User Services System capability.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

ORIGINATOR CONTROL NUMBER: SRS1-0019 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB

DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: SEE BELOW

PARA NUMBER: SEE BELOW

COMMENT OR RECOMMENDED CHANGE:

Remove the bold faced lines from the references listed on the following page.

RATIONALE:

The references listed were marked with bold faced lines in the adjacent margins, yet there was no change from the final SRS for the Increment I Applications CSCI, dated May 11, 1990. Only ECP driven changes should be so identified.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

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ORIGINATOR CONTROL NUMBER: SRS1-0020 PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A003-04BB DATE: 05/31/90

ORIGINATOR NAME: Gerald T. Love OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: SEE BELOW PARA NUMBER: SEE BELOW

COMMENT OR RECOMMENDED CHANGE:

Remove the bold faced lines from the shall statements listed on the following pages.

RATIONALE:

The shall statements listed were marked with bold faced lines in the adjacent margins, yet there was no change from the Final SRS for the Increment I Applications CSCI, dated May 11, 1990. Only ECP driven changes should be identified.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

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